2024 Annual Conference on Theory and Applications of Models of Computation (TAMC 2024) Conference Program

Day 1 (May 13, 2024)				
	Day 1 (May 13, 2024)			
9:00-10:00	Keynote: Some Mathematical Problems in Quantum Circuit Synthesis and Optimization. <i>Xiaoming Sun</i>			
10:00-10:30	Tea Break			
Session 1 (Chair: Aggeliki Chalki)				
10:30-10:50	Kleene Theorems for Lasso and ω-Languages. <i>Mike Cruchten</i>			
10:50-11:10	A Coq-based Infrastructure for Quantum Programming, Verification and Simulation. Wenxuan Tao and Gang Chen			
11:10-11:30	Energy and Output Patterns in Boolean Circuits. <i>Jayalal Sarma</i> and <i>Kei Uchizawa</i>			
11:30-11:50	Quantum Path Parallelism: A Circuit-Based Approach to Text Searching. Simone Faro, Arianna Pavone and Caterina Viola			
11:50-12:10	On Learning Families of Ideals in Lattices and Boolean Algebras. Nikolay Bazhenov and Manat Mustafa			
Lunch				
Session 2 (Chair: Debajyoti Mondal)				
14:10-14:30	Lower Bounds for the Sum of Small-size Algebraic Branching Programs. C. S. Bhargav, Prateek Dwivedi and Nitin Saxena			
14:30-14:50	An Improved Approximation Algorithm for Metric Triangle Packing. Jingyang Zhao and Mingyu Xiao			
14:50-15:10	An Optimal and Practical Algorithm for the Planar 2-center Problem. Xuehou Tan			
15:10-15:30	An Improved Kernel and Parameterized Algorithm for Almost Induced Matching. Yuxi Liu and Mingyu Xiao			
15:30-15:50	On the Power of Counting the Total Number of Computation Paths of NPTMs. Aggeliki Chalki, Aris Pagourtzis, Eleni Bakali, Sotiris Kanellopoulos and Stathis Zachos			
15:50-16:20	Tea break			

Session 3 (Chair: Caterina Viola)		
16:20-16:40	A Local Search Algorithm for Radius-Constrained k-Median. <i>Gaojie Chi</i> and <i>Longkun Guo</i>	
16:40-17:00	Approximation Algorithms for Robust Clustering Problems Using Local Search Techniques. <i>Chenchen Wu, Moehring Rolf, Yishui Wang, Dachuan Xu</i> and <i>Dongmei Zhang</i>	
17:00-17:20	The Parameterized Complexity of Maximum Betweenness Centrality. Šimon Schierreich and José Gaspar Smutný	
17:20-17:40	Improved Approximation Algorithm for the Distributed Lower-bounded k-center Problem. <i>Ting Liang, Qilong Feng, Xiaoliang Wu, Jinhui Xu</i> and <i>Jianxin Wang</i>	
17:40-18:00	A Tight Threshold Bound for Search Trees with 2-way Comparisons. Sunny Atalig and Marek Chrobak	

Day 2 (May 14, 2024)		
9:00-10:00	Keynote: On the Finite Character of Learnability: A Fundamental Theorem of Supervised Learning. <i>Shang-Hua Teng</i>	
10:00-10:30	Tea Break	
Session 4 (Chair: Chenchen Wu)		
10:30-10:50	Mechanism Design with Predictions for Facility Location Games with Candidate Locations. Jiazhu Fang, Qizhi Fang, Wenjing Liu and Qingqin Nong	
10:50-11:10	Mechanism Design for Building Optimal Bridges between Regions. Zining Qin, Hau Chan, Chenhao Wang and Ying Zhang	
11:10-11:30	On the 3-tree Core of Plane Graphs. <i>Debajyoti Mondal</i> and <i>Md. Saidur Rahman</i>	
11:30-11:50	Time Efficient Implementation for Online k-server Problem on Trees. Kamil Khadiev and Maxim Yagafarov	
11:50-12:10	Joint Bidding in Ad Auctions. Yuchao Ma, Weian Li, Wanzhi Zhang, Yahui Lei, Zhicheng Zhang, Qi Qi, Qiang Liu and Xingxing Wang	
Lunch		

Session 5 (Chair: Shinichi Nakano)		
14:10-14:30	Some Combinatorial Algorithms on the Edge Cover Number of k-regular Connected Hypergraphs. Zhongzheng Tang, Yaxuan Li and Zhuo Diao	
14:30-14:50	Parameterized Complexity of Weighted Target Set Selection. Takahiro Suzuki, Kei Kimura, Akira Suzuki, Yuma Tamura and Xiao Zhou	
14:50-15:10	Offensive Alliances in Signed Graphs. Zhidan Feng, Henning Fernau, Kevin Mann and Xingqin Qi	
15:10-15:30	Space-Efficient Graph Kernelizations. Frank Kammer and Andrej Sajenko	
15:30-15:50	Counting on Rainbow k-connections. Robert Barish and Tetsuo Shibuya	
15:50-16:20	Tea break	
16:20-21:00	Photos and banquet	
Day 3 (May 15, 2024)		
9:00-10:00	Keynote: Lightweight Algorithms to Learning Solutions for Large-scale Maximization. <i>My T. Thai</i>	
10:00-10:30	Tea Break	
Session 6 (Chair: Zhongzheng Tang)		
10:30-10:50	A Gray Code of Ordered Trees. Shin-Ichi Nakano	
10:50-11:10	Unambiguous and Co-Nondeterministic Computations of Finite Automata and Pushdown Automata Families and the Effects of Multiple Counters. Tomoyuki Yamakami	
11:10-11:30	Endogenous Threshold Selection with Two-Interval Restricted Tests. Zeyu Ren and Yan Liu	
11:30-11:50	Source-Oblivious Broadcast. Pierre Fraigniaud and Hovhannes Harutyunyan	
11:50-12:10	Tight Double Exponential Lower Bounds. Ivan Bliznets and Markus Hecher	
12:10-12:20	Business Meeting/Closing Ceremony	